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TITLE: NON-AQUEOUS ELECTROLYTE BATTERY

PUB. NO.: 10-069915 [JP 10069915 A] PUBLISHED: March 10, 1998 (19980310) INVENTOR(s): KUSUMOTO YASUYUKI

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## **ABSTRACT**

PROBLEM TO BE SOLVED: To improve preservation characteristics of a battery by adding a specific additive to a non-aqueous electrolyte.

SOLUTION: In an aqueous electrolyte battery provided with a positive electrode 7, a negative electrode 1 made of a lithium metal, a lithium alloy, or a material capable of absorbing and discharging lithium, and a non-aqueous electrolyte, at least one kind of additives selected from a stannic acid-ester, germanium acid ester, and strontium acid ester-is added to the non-aqueous electrolyte. Addition quantity of this additive is within the range of 0.01 to 20wt.% relevant to the non-aqueous electrolyte. Thereby, stannic acid ester, germanium acid ester, or strontium acid ester as an additive reacts with lithium, and a good quality coat is formed. As a result, probability of which lithium directly contacts with solvent is lowered, and decomposition of the non-aqueous electrolyte is restricted. Thereby, preservation characteristics of the non-aqueous electrolyte battery can be improved.